

# Colby Hill

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## Experience

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### Capital One

*Senior Associate Software Engineer*

*December 2022-Current (Remote)*

- Architected a modernized API to efficiently handle customer document uploads, resulting in a streamlined document processing flow and greatly improved customer experience.
- Supporting and enhancing the Document Request and Document Upload APIs, facilitating seamless processing of over a million customer document uploads per month.
- Led the modernization of event streaming and logging to Snowflake, Splunk, and New Relic, collaborating with 4 teams cross-functionally, resulting in improved real-time monitoring and analytics.
- **Technologies Used:** Java, Spring Boot, PostgreSQL, AWS, Snowflake, Splunk, New Relic

*Associate Software Engineer*

*August 2021-December 2022 (Remote)*

- Spearheaded the development of four new reward auto-redemption thresholds, reducing reward redemption friction for Capital One's highest value customers.
- Developed an API to aggregate customer transactions and determine eligibility for an annual spend bonus, adding a new capability to promote customer spending.
- Collaborated cross functionally to resolve a bug affecting small business customers for over 3 years, improving platform consistency and customer experience.
- **Technologies Used:** Node.js, Go, PostgreSQL, AWS, HTML, CSS, Docker, Jenkins, Tensorflow, Keras

*Software Engineering Intern*

*May 2020 - August 2020 (Remote)*

- Collaborated with an Agile team remotely to architect a full-stack application which enabled product owners to effortlessly toggle the Commercial Card Platform features in real-time.
- **Technologies Used:** Node.js, PostgreSQL, AWS, Angular, NestJS, HTML, SCSS, Docker, Jenkins

### Krumware

*Software Developer*

*August 2019 - May 2020 (Columbia, SC)*

- Led the migration to Rancher, enabling Multi-Cloud Computing, improving application availability, and reducing server costs by 12%.
- Engineered responsive, user-friendly applications to clients, consistently exceeding customer expectations.
- Automated Kubernetes resource management flows, eliminating the need for manual processing.
- **Technologies Used:** Node.js, MongoDB, Docker, Javascript, Rancher, Jenkins, AWS, GitHub Actions

### University of South Carolina

*Research Assistant*

*November 2017 - May 2019 (Columbia, SC)*

- Developed an Android smartwatch application which detected smoking with 99.3% classification accuracy.
- Optimized signal processing and gesture classification, extending smartwatch battery lifespan by 325%.
- **Technologies Used:** TensorFlow, Keras, Java, Android Wear, Gradle, C#, Python, Matlab, SQL

## Education

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**University of South Carolina, Columbia, SC**

August 2020 - May 2021

*Master of Science in Computer Science*

Summa Cum Laude | Graduate Assistant

**University of South Carolina, Columbia, SC**

August 2016 - May 2020

*Bachelor of Science in Computer Science*

Summa Cum Laude | Phi Beta Kappa Honor Society | Leadership Distinction